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SOURCE Izvestiya Akademii Nauk SSSR, Otdeleniye Tekhnicheskikh Nauk, No 2, 1950.

NEW SOVIET BOOKS ON GAS FLOW AND POWER ENGINEERING

1. Gas Flow (O gazovykh struyakh), S. A. Chaplygin, State Publishers of Technical-Theoretical Literature, 1949, 144 pp.

Foreword by Academician S. A. Khristianovich states that the book forms the basis for making gas dynamics an independent branch of science. Contents: Chapter I, Fundamentals, Research Methods; II, Demonstration of Series Convergence for the Function of Current and Rate Potential and Some Properties of Functions Entering Into Them; III, Gas Flow From an Infinite Spherical Vessel; IV, Pressure of a Gas Current on a Plate; V, Approximate Method for the Solution of Problems on Gas Flow.

2. Magnetic Amplifiers (Magnitnyye usiliteli), M. A. Rozenblat, State Power Engineering Publishers, 1949, 184 pp.

Reviews the properties of ferromagnetic circuits during magnetization by constant and alternating magnetic fields. Gives theory and methods for calculations on magnetic amplifiers, and describes the basic types of magnetic sounding, working on the principle of saturation of ferro-magnetic materials. Book includes chapters on magnetic amplifiers with feedback, transient processes in magnetic amplifiers, push-pull, and choke coil magnetic amplifiers, and applications of magnetic amplifiers.

3. Electronic Oscillograph (Elektronnyy ostsillograf), I. S. Stekol'nikov, second edition, revised, State Power Engineering Publishers, 1949, 416 pp.

Describes the theoretical principles of the electronic optics of the oscillograph, the theory of obtaining photographic images from an electron beam, construction of cold- and hot-cathode oscillographs, the recording of various processes using an oscillograph, and examination of diagrams.

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